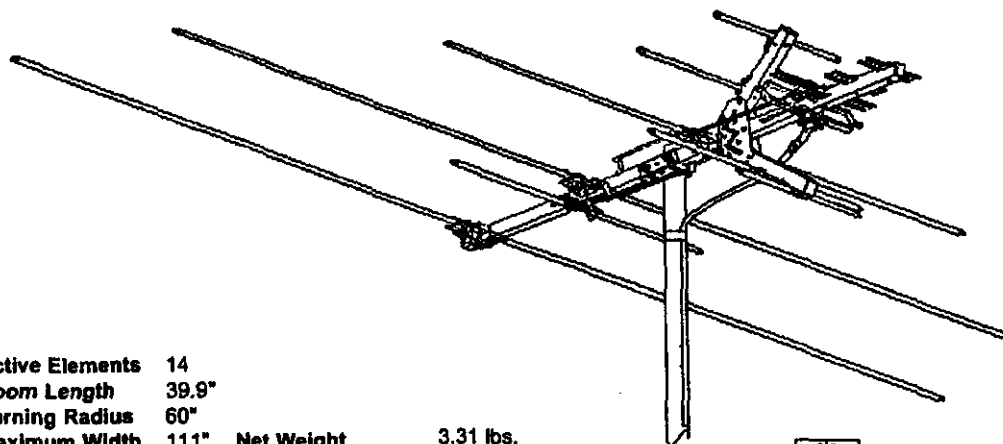




PROSTAR® 1000 **VHF/UHF/FM** **ANTENNA**

engineering specifications

Model PR-7005



Active Elements	14	Net Weight	3.31 lbs.
Boom Length	39.9"	Shpg. Weight	4.81 lbs.
Turning Radius	60"	Carton Dimensions	6.25x6.25"x68.25"
Maximum Width	111"		
Vertical Height	13.5"		
Element Diameter	3/8"		



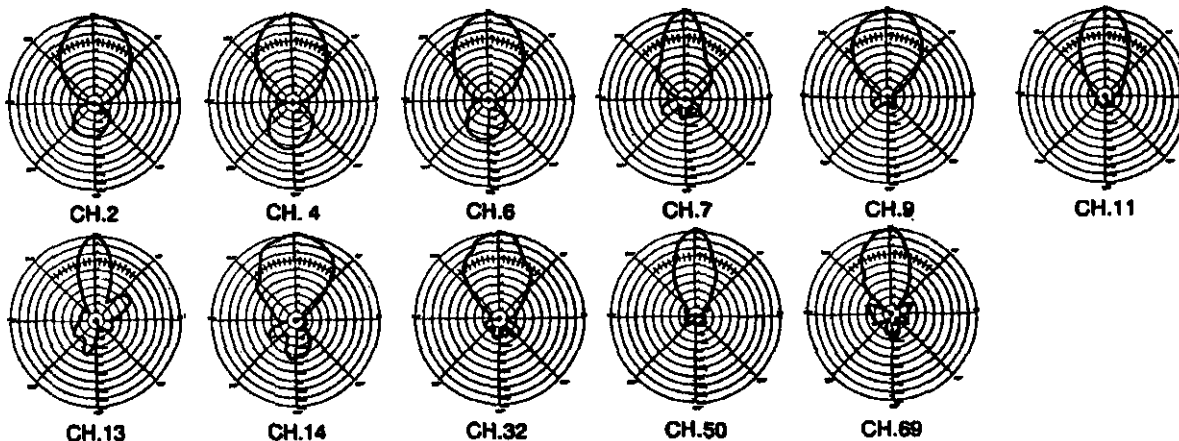
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Output Impedance: 300 ohm / 75 ohm with included transformer
 Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	.6	2.6	1.6	6.1	6.1	6.2	5.3	3.7	5.1	6	6
beamwidth at half power points	84°	75°	73°	38°	70°	48°	33°	85°	65°	32°	46°
front-to-back ratio	8dB	5dB	73dB	10.5dB	14dB	18dB	8dB	7dB	10.5dB	16dB	10.5dB

POLAR PATTERNS

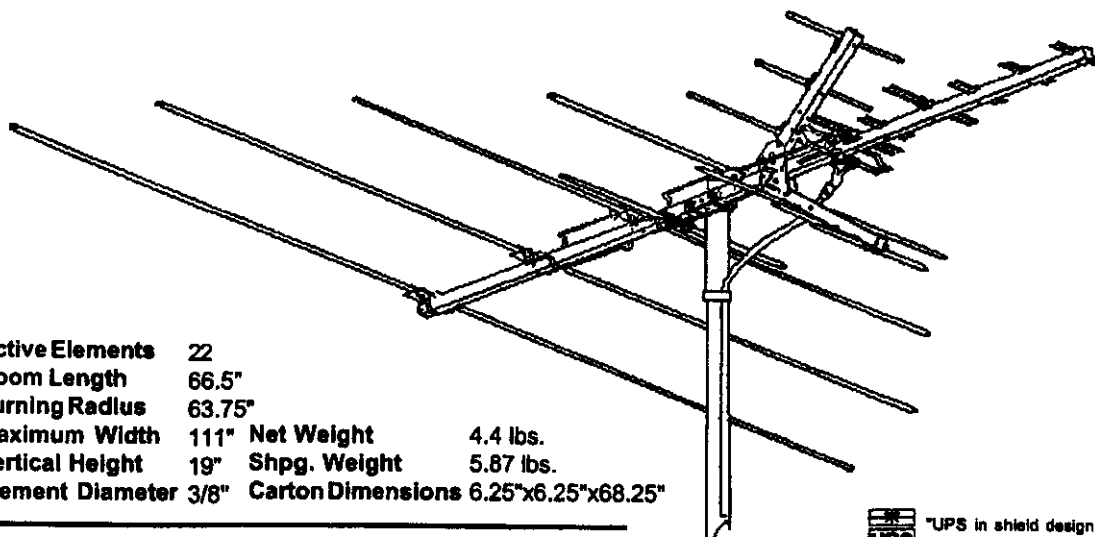




PROSTAR® 1000 **VHF/UHF/FM** **ANTENNA**

engineering specifications

Model PR-7010



Active Elements 22
Boom Length 66.5"
Turning Radius 63.75"
Maximum Width 111" **Net Weight** 4.4 lbs.
Vertical Height 19" **Shpg. Weight** 5.87 lbs.
Element Diameter 3/8" **Carton Dimensions** 6.25"x6.25"x68.25"

Output Impedance: 300 ohm / 75 ohm with included matching transformer
Recommended Preamp: AP Series

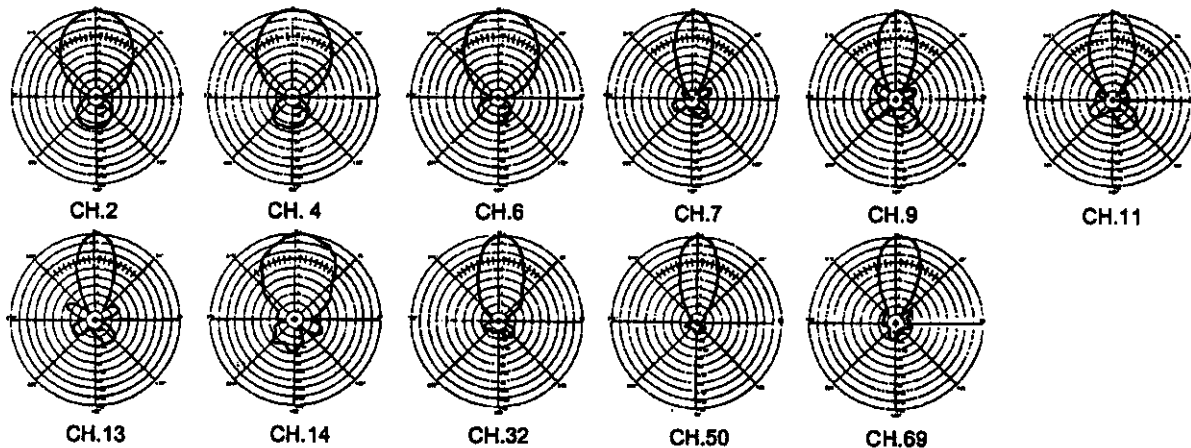


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Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	2.3	3.6	1.9	6.8	6.8	7.3	6.3	8.1	8	8.3	7
beamwidth at half power points	75°	77°	77°	36°	36°	43°	37°	73°	40°	37°	39°
front-to-back ratio	9dB	9dB	10.5dB	11.5dB	8dB	8dB	10dB	7dB	12.5dB	19dB	15dB

POLAR PATTERNS



engineering specifications

Model PR-7015

Active Elements 31
Boom Length 87.75"
Turning Radius 69"
Maximum Width 111" Net Weight 5.7 lbs.
Vertical Height 25.5" Shpg. Weight 8.5 lbs.
Element Diameter 3/8" Carton Dimensions 6.25"x6.25"x89"

Output Impedance: 300 ohm / 75 ohm with included matching transformer
Recommended Preamp: AP Series

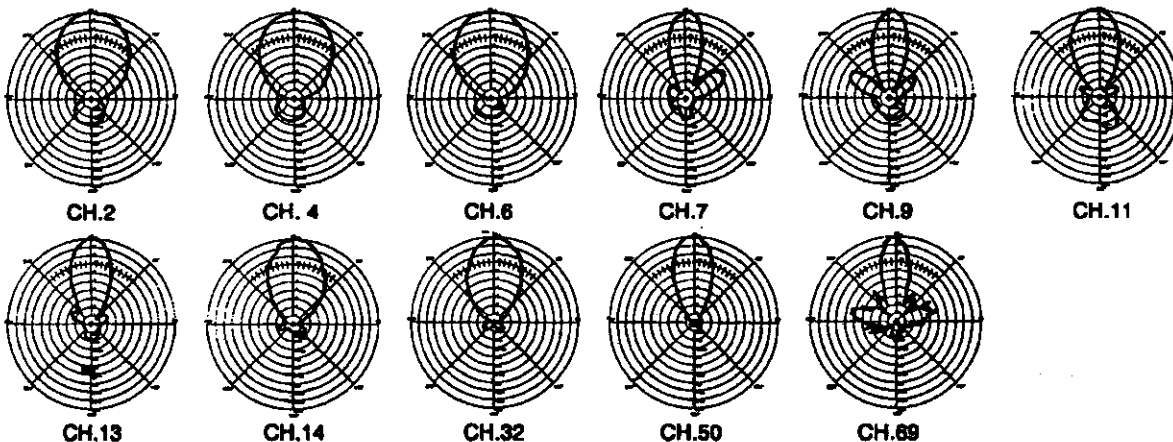


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Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	3.9	4.1	2.5	7.5	7.5	8	7	9.4	9.9	9.8	8.2
beamwidth at half power points	75°	74°	77°	32°	32°	47°	40°	57°	54°	38°	25°
front-to-back ratio	10.5dB	12dB	13dB	13dB	12.5dB	8dB	14.5dB	14dB	17dB	greater than 20dB	13dB

POLAR PATTERNS

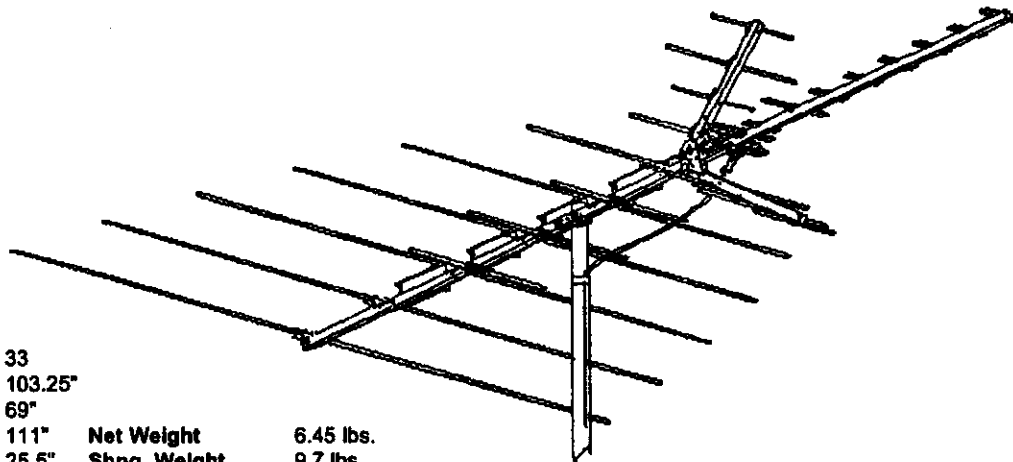




PROSTAR® 1000 **VHF/UHF/FM** **ANTENNAS**

engineering specifications

Model PR-7032



Active Elements 33
Boom Length 103.25"
Turning Radius 69"
Maximum Width 111"
Vertical Height 25.5"
Element Dia. 3/8"

Net Weight 6.45 lbs.
Shpg. Weight 9.7 lbs.
Carton Dimensions 6.25"x6.25"x77"



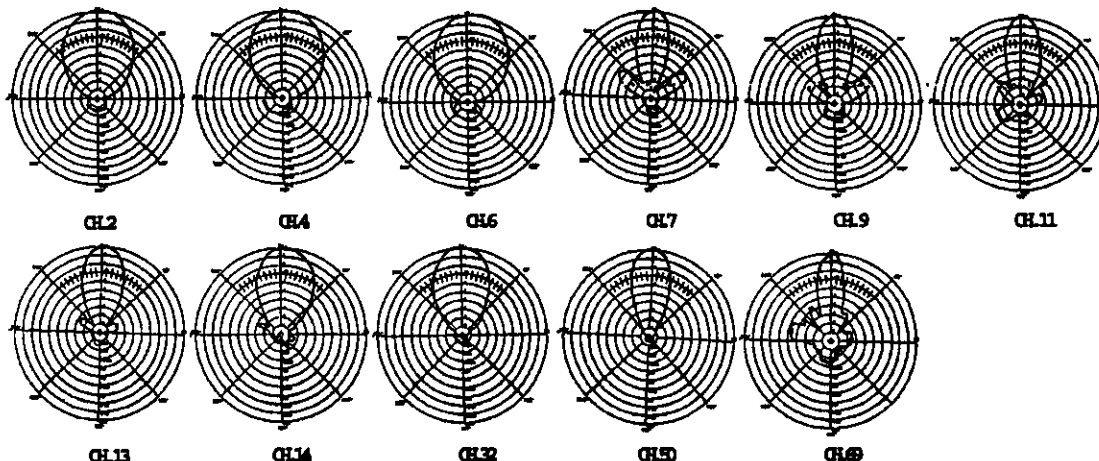
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Output Impedance: 300 ohm / 75 ohm with included matching transformer
Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	4.6	5	3	8	7.8	8.3	7.5	9.4	10	10	8.5
beamwidth at half power points	73°	75°	77°	32°	34°	33°	40°	56°	55°	37°	27°
front-to-back ratio	18dB	13dB	14dB	16dB	15dB	11dB	17dB	17dB	20dB	greater than 20dB	17dB

POLAR PATTERNS

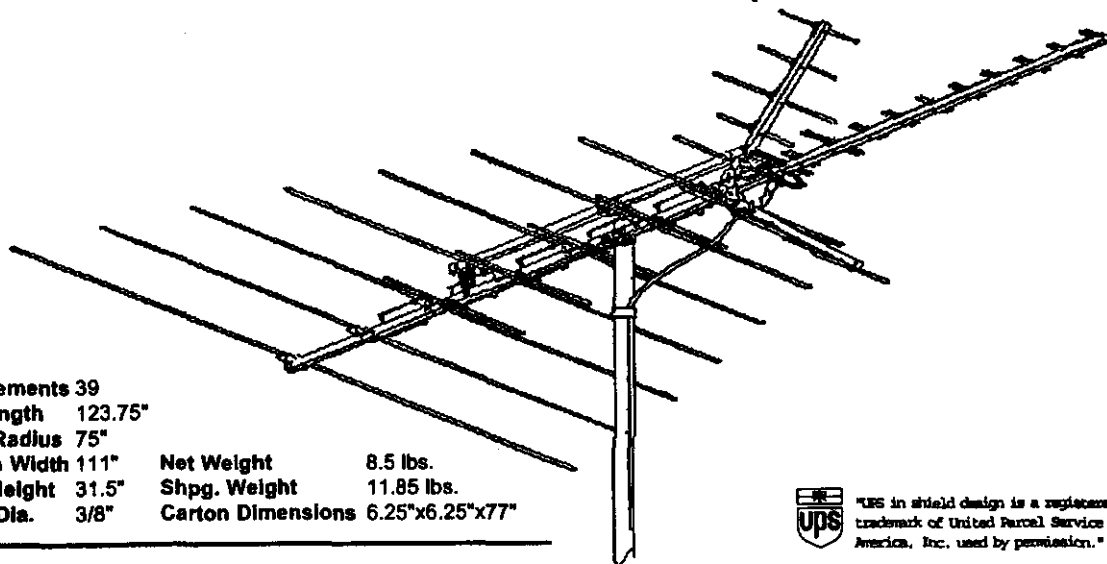




PROSTAR® 1000 **VHF/UHF/FM** **ANTENNAS**

engineering specifications

Model PR-7037



Active Elements 39
 Boom Length 123.75"
 Turning Radius 75"
 Maximum Width 111"
 Vertical Height 31.5"
 Element Dia. 3/8"

Net Weight 8.5 lbs.
 Shpg. Weight 11.85 lbs.
 Carton Dimensions 6.25"x6.25"x77"



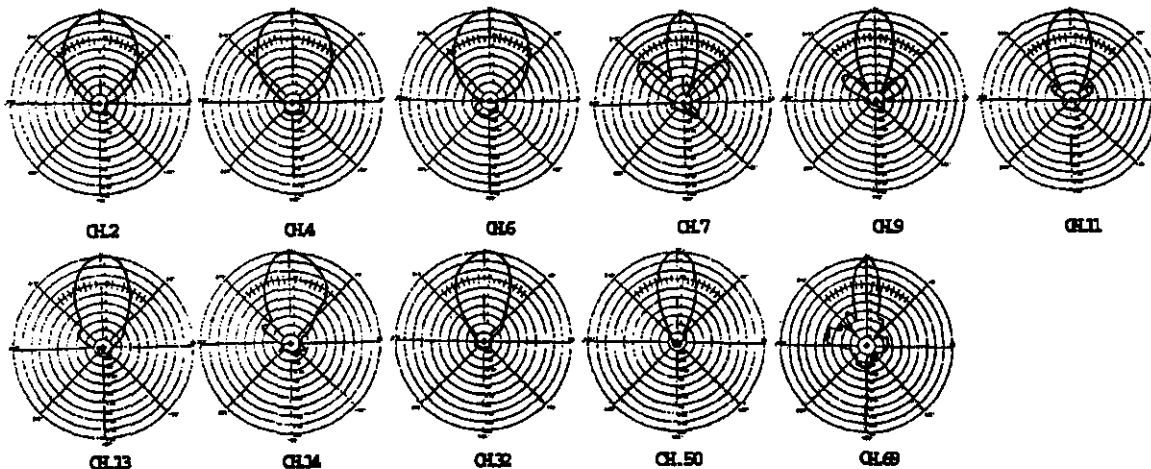
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Output Impedance: 300 ohm / 75 ohm with included matching transformer
 Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	5.4	5.7	4.2	9.1	9.6	8.8	8.1	10.8	11.1	11.4	10.3
beamwidth at half power points	71°	72°	74°	27°	33°	39°	50°	57°	52°	34°	24°
front-to-back ratio	20dB	17dB	15dB	13dB	18dB	19dB	greater than 20dB	17dB	20dB	greater than 20dB	12dB

POLAR PATTERNS

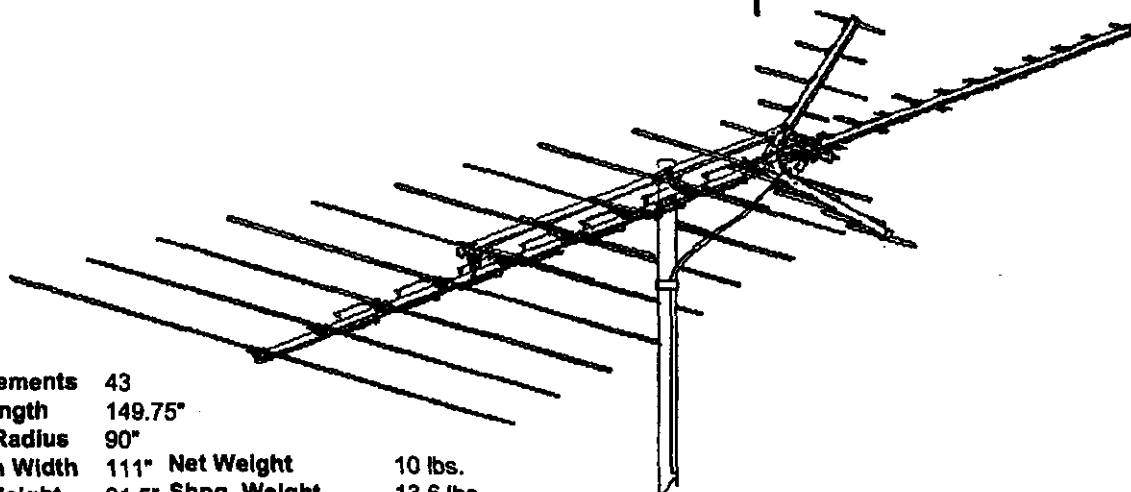




PROSTAR® 1000 **VHF/UHF/FM** **ANTENNA**

engineering specifications

Model PR-7042



Active Elements 43
 Boom Length 149.75"
 Turning Radius 90°
 Maximum Width 111" Net Weight 10 lbs.
 Vertical Height 31.5" Shpg. Weight 13.6 lbs.
 Element Diameter 3/8" Carton Dimensions 6.75"x6.25"x104.25"



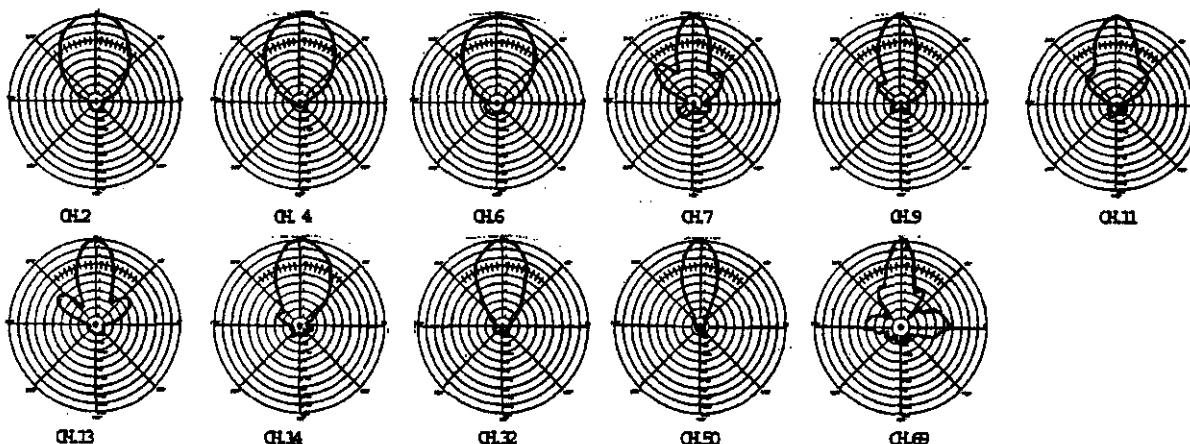
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 America, Inc. used by permission.*

Output Impedance: 300 ohm / 75 ohm with included matching transformer
 Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	6	6.4	5	10.2	10	9.5	9.3	10.8	11.3	11.7	10.8
beamwidth at half power points	72°	70°	73°	31°	36°	39°	33°	55°	50°	34°	24°
front-to-back ratio	20dB	greater than 20dB	17dB	14dB	18dB	17dB	19.5dB	17dB	20dB	greater than 20dB	14dB

POLAR PATTERNS





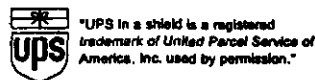
PROSTAR® 1000 VHF/UHF ANTENNA

engineering specifications

Model PR-7052

Active Elements 49
 Boom Length 170.25"
 Turning Radius 99.5"
 Maximum Width 111" Net Weight 10.98 lbs.
 Vertical Height 31.5" Shpg. Weight 14.8 lbs.
 Element Diameter 3/8" Carton Dimensions 6.25"x6.25"x104.25"

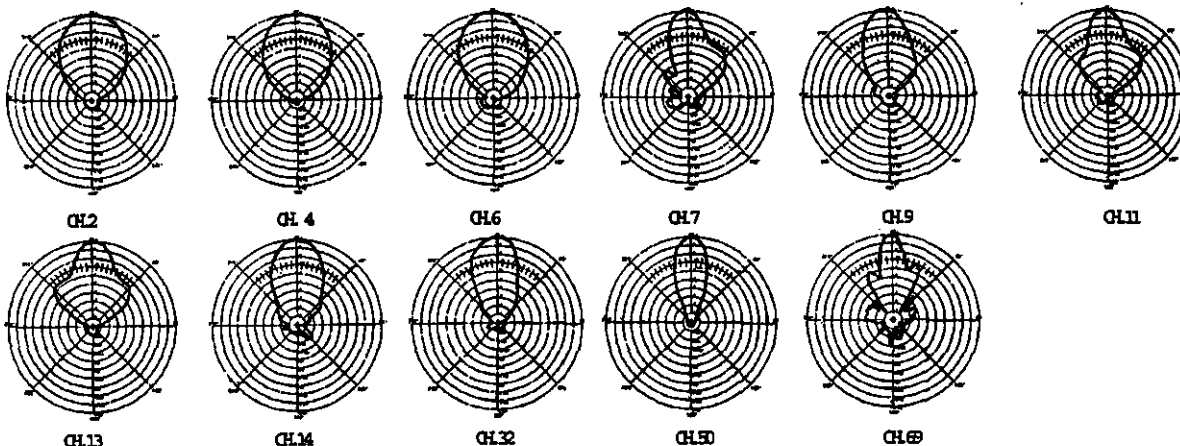
Output Impedance: 300 ohm / 75 ohm with included transformer
 Recommended Preamp: AP Series



Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	6.8	6.9	6	10.5	10.4	10	9.8	12.3	12.8	12.5	12.1
beamwidth at half power points	69°	69°	70°	35°	43°	38°	43°	51°	45°	31°	23°
front-to-back ratio	20dB	greater than 20dB	18dB	12dB	18.5dB	18dB	20dB	14dB	19dB	greater than 20dB	14dB

POLAR PATTERNS

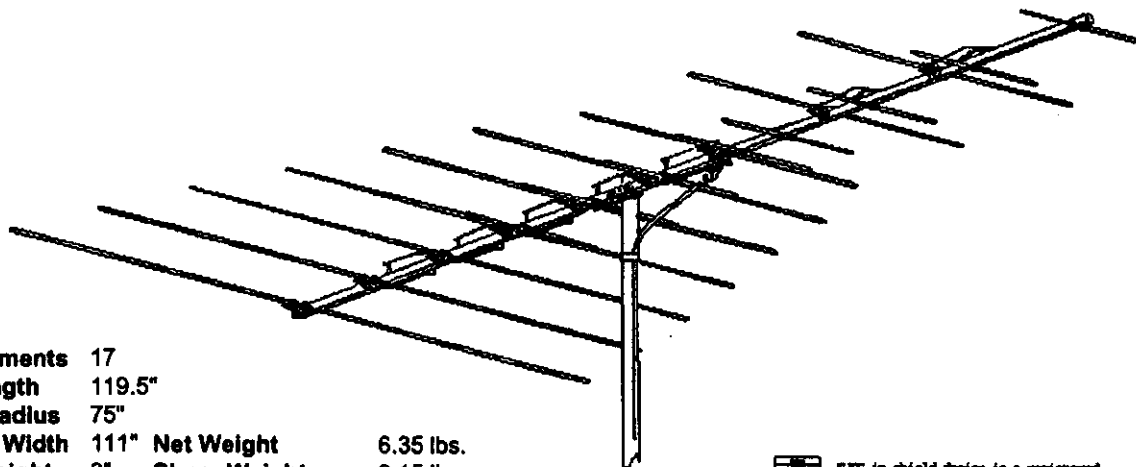




PROSTAR® 1000 **VHF/FM** **ANTENNA**

engineering specifications

Model PR-5030



Active Elements 17
Boom Length 119.5"
Turning Radius 75"
Maximum Width 111" **Net Weight** 6.35 lbs.
Vertical Height 3" **Shpg. Weight** 9.15 lbs.
Element Diameter 3/8" **Carton Dimensions** 6.25"x6.25"x77"



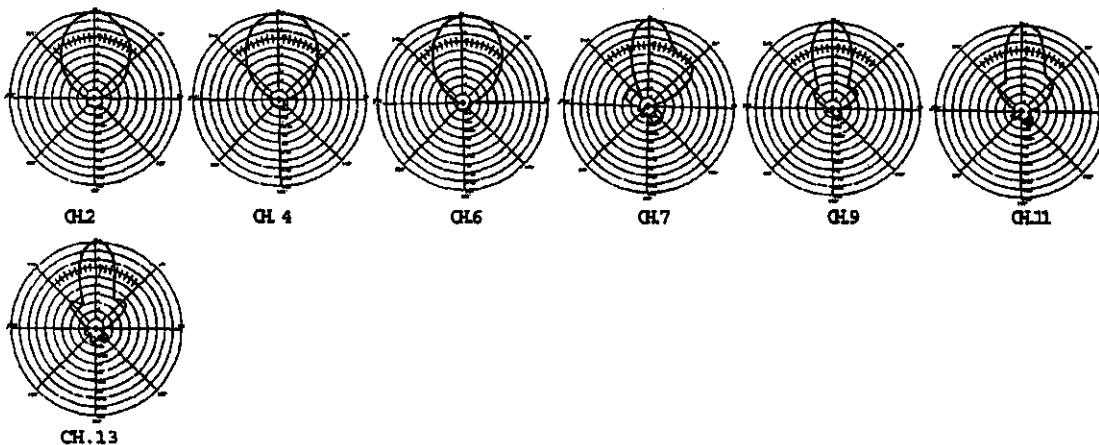
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Output Impedance: 300 ohm / 75 ohm with included transformer
Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13
dB gain over reference dipole	5.1	5.0	7.0	7.5	9.5	7.7	8.2
beamwidth at half power points	68°	70°	70°	41°	36°	36°	33°
front-to-back ratio	19dB	greater than 20dB	greater than 20dB	13dB	18dB	16dB	15dB

POLAR PATTERNS

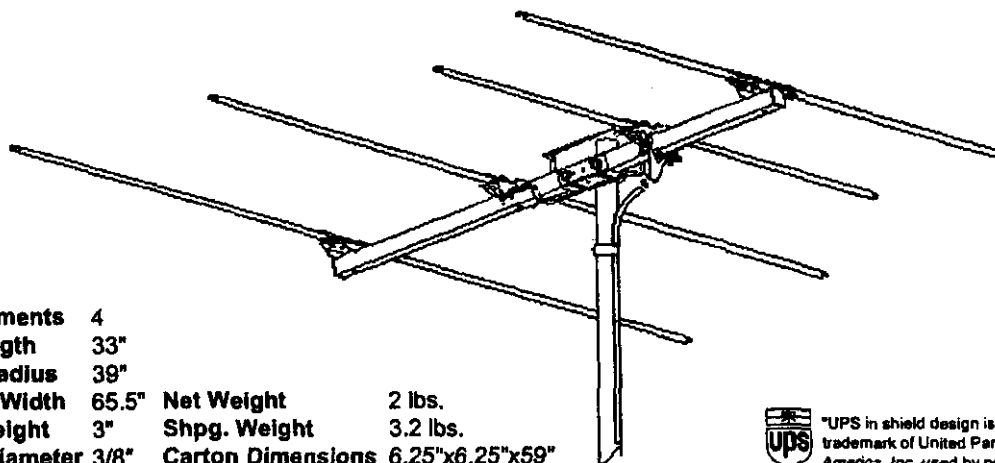




PROSTAR® 1000 FM ANTENNA

engineering specifications

Model PR-6000



Active Elements 4
Boom Length 33"
Turning Radius 39"
Maximum Width 65.5"
Vertical Height 3"
Element Diameter 3/8"

Net Weight 2 lbs.
Shpg. Weight 3.2 lbs.
Carton Dimensions 6.25"x6.25"x59"



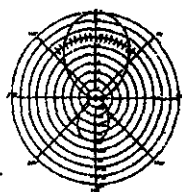
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Output Impedance: 300 ohm / 75 ohm with included transformer
Recommended Preamp: AP Series

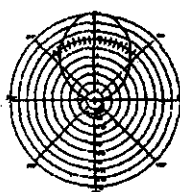
Made in U.S.A.

CHANNEL	88MHz	98MHz	108MHz
dB gain over reference dipole	5	5	5.2
beamwidth at half power points	67°	72°	71°
front-to-back ratio	6dB	14dB	16dB

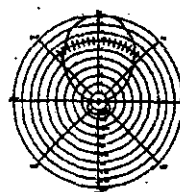
POLAR PATTERNS



88MHz



98MHz



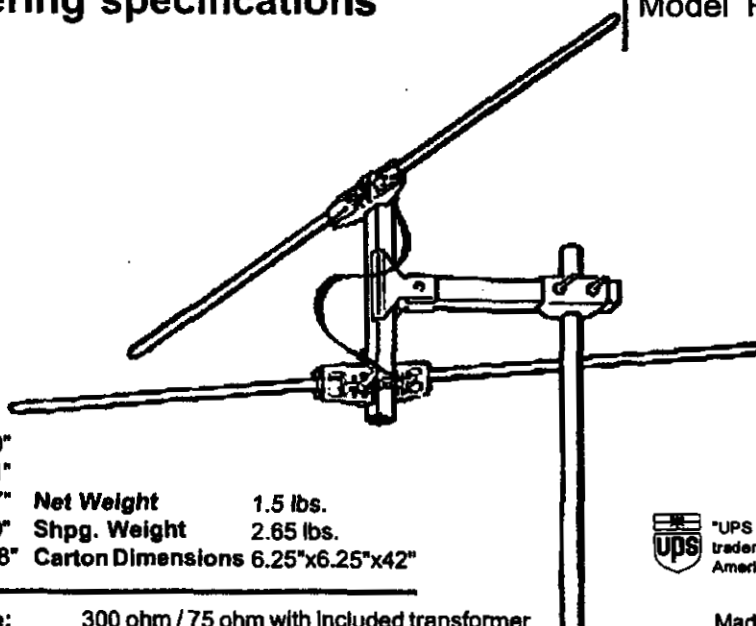
108MHz



PROSTAR® 1000 FM ANTENNA

engineering specifications

Model PR-6010



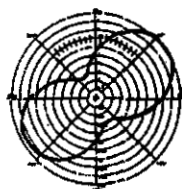
Active Elements	2		
Boom Length	10"		
Turning Radius	41"		
Maximum Width	67"	Net Weight	1.5 lbs.
Vertical Height	10"	Shpg. Weight	2.65 lbs.
Element Diameter	3/8"	Carton Dimensions	6.25"x6.25"x42"

Output Impedance: 300 ohm / 75 ohm with included transformer
Recommended Preamp: AP Series

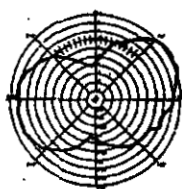


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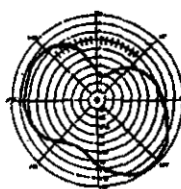
Made in U.S.A.



88MHz



98MHz



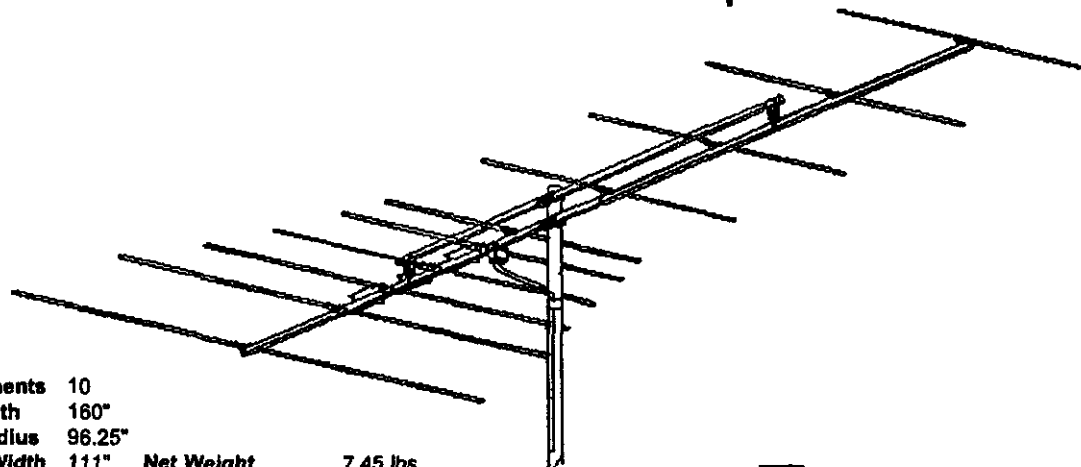
108MHz



BROADBAND YAGI ANTENNA

engineering specifications

Model YA-1026



Active Elements 10
 Boom Length 160"
 Turning Radius 96.25"
 Maximum Width 111"
 Vertical Height 5"
 Element Diameter 3/8"

Net Weight 7.45 lbs.
 Shpg. Weight 10.8 lbs.
 Carton Dimensions 6.25"x6.25"x89"



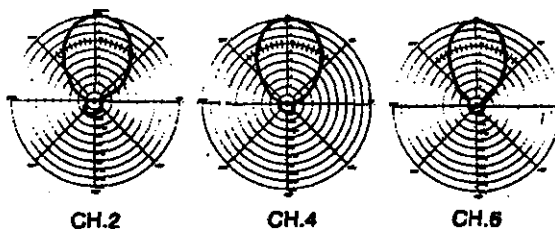
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Output Impedance: 75 ohm
 Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6
dB gain over reference dipole	4.6	5.7	6.0
beamwidth at half power points	70°	66°	58°
front-to-back ratio	16dB	20dB	greater than 20 dB

POLAR PATTERNS

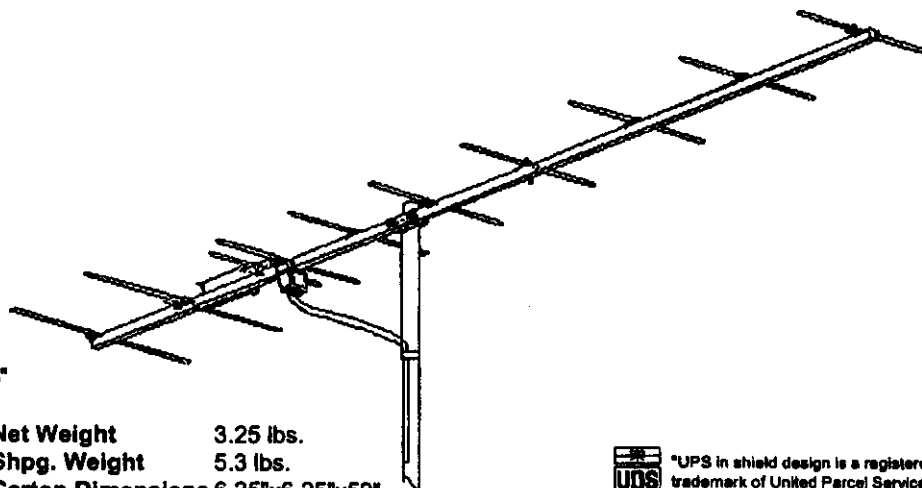




BROADBAND YAGI ANTENNA

engineering specifications

Model YA-1713



Active Elements 10
Boom Length 99.875"
Turning Radius 61"
Maximum Width 35" **Net Weight** 3.25 lbs.
Vertical Height 3" **Shpg. Weight** 5.3 lbs.
Element Diameter 3/8" **Carton Dimensions** 6.25"x6.25"x59"



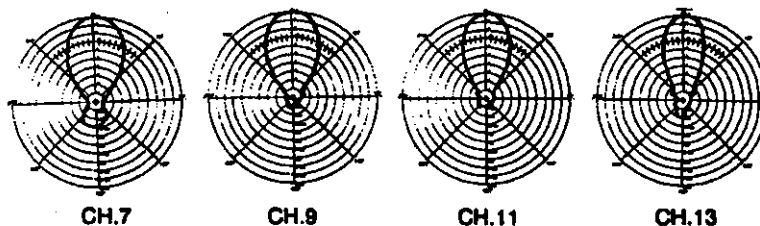
"UPS in shield design is a registered trademark of United Parcel Service of America, Inc. used by permission."

Output Impedance: 75 ohm
Recommended Preamp: AP Series

Made in U.S.A.

CHANNEL	CH.7	CH.9	CH.11	CH.13
dB gain over reference dipole	9.1	10	10	10.3
beamwidth at half power points	56°	55°	47°	40°
front-to-back ratio	10.5dB	18dB	19dB	14dB

POLAR PATTERNS





BROADBAND YAGI ANTENNA

engineering specifications

Model YA-6260

Active Elements 6
 Boom Length 87"
 Turning Radius 68.25"
 Maximum Width 111" Net Weight 3.75 lbs.
 Vertical Height 3" Shpg. Weight 5.95 lbs.
 Element Diameter 3/8" Carton Dimensions 6.25"x6.25"x89"

Output impedance: 75 ohm
 Recommended Preamp: AP Series

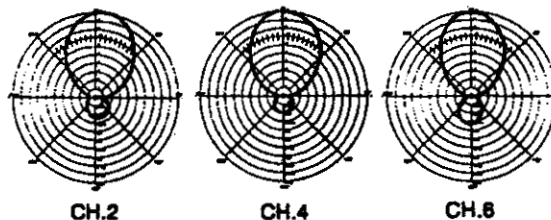


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Made in U.S.A.

CHANNEL	CH.2	CH.4	CH.6
dB gain over reference dipole	3.9	4	5
beamwidth at half power points	72°	74°	64°
front-to-back ratio	12dB	14dB	9.5dB

POLAR PATTERNS

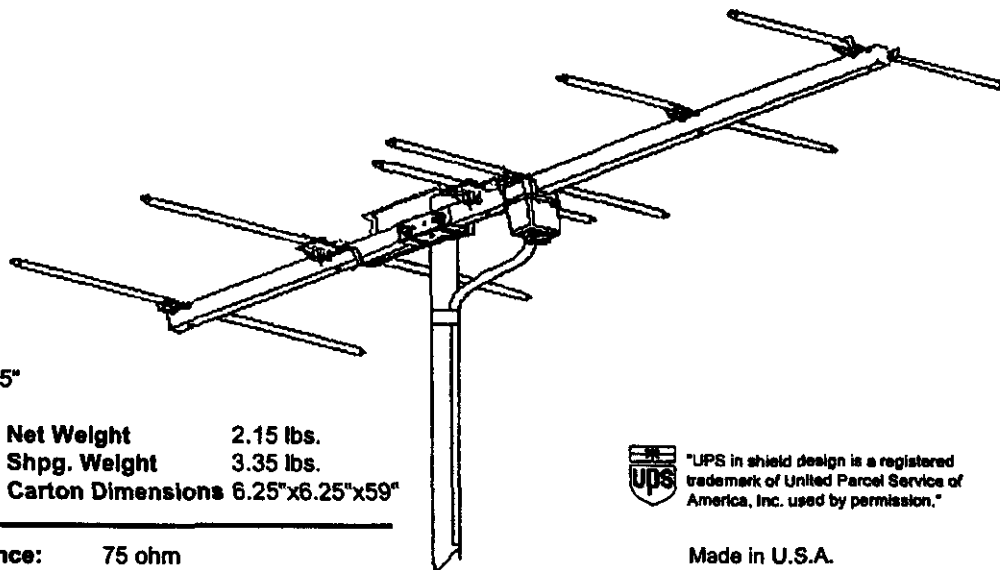




BROADBAND YAGI ANTENNA

engineering specifications

Model YA-6713



Active Elements 6
 Boom Length 49.875"
 Turning Radius 34"
 Maximum Width 35" Net Weight 2.15 lbs.
 Vertical Height 3" Shpg. Weight 3.35 lbs.
 Element Diameter 3/8" Carton Dimensions 6.25"x6.25"x59"

Output Impedance: 75 ohm
 Recommended Preamp: AP Series

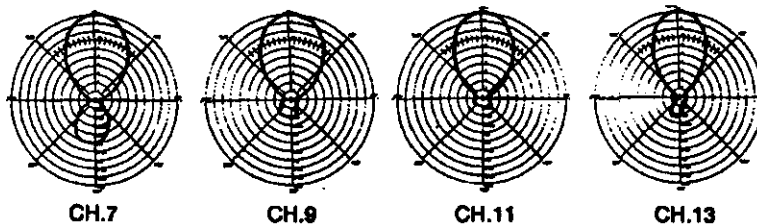


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Made in U.S.A.

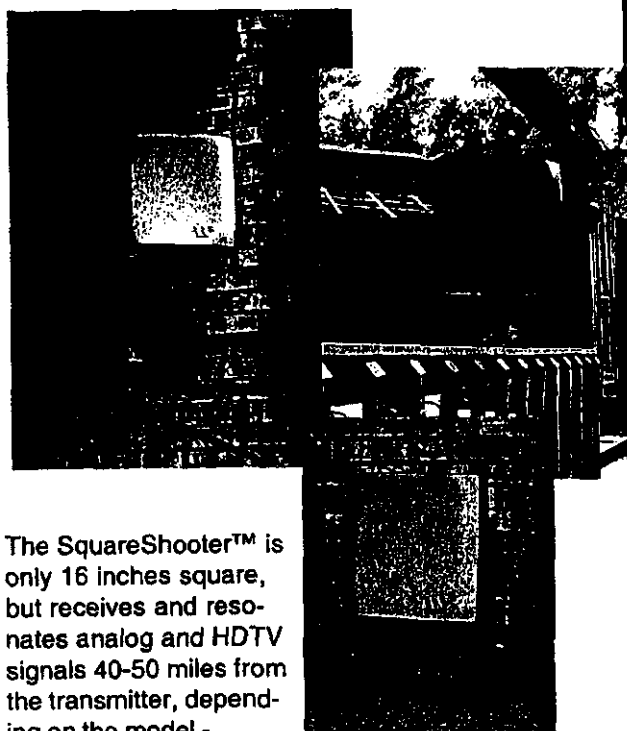
CHANNEL	CH.7	CH.9	CH.11	CH.13
dB gain over reference dipole	6.8	7.3	7.2	6.8
beamwidth at half power points	64°	63°	60°	53°
front-to-back ratio	6dB	14dB	18dB	12.5dB

POLAR PATTERNS





HDTV² SquareShooterTM Antenna System



The SquareShooterTM is only 16 inches square, but receives and resonates analog and HDTV signals 40-50 miles from the transmitter, depending on the model - SS-1000 or SS-2000 (amplified).

Its small size and design allows for versatile mounting locations such as walls, roofs, patios, attics and railings. Plus, the SquareShooterTM can be mounted above a satellite dish using Winegard's DS-1000 home satellite mounting kit and diplexed with the existing satellite coax cable, incorporating both the satellite and SquareShooterTM Off-Air signals on one cable.

Both models have a very high 20 to 1 front-to-back ratios and were specifically designed for urban/metropolitan locations where line-of-sight to the transmit source is blocked. Scatter-Plane technology neutralizes reflected, out-of-phase signals arriving



Mounting options
for the
Square Shooter:
• Wall mount
• Roof mount
• Rail mount
• Floor

at the back of the antenna element. This provides the SquareShooterTM its muscle to reject multi-path signal (ghosting) and the ability to tune into the desired reflected signal for the best reception characteristics so critical for downtown urban locations.

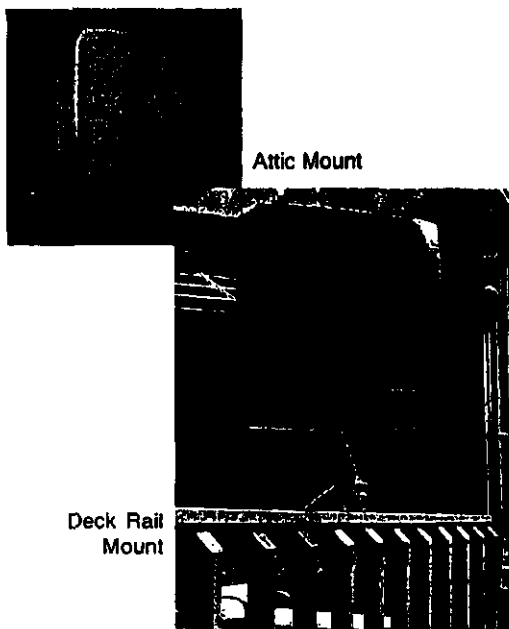
The SS-2000 is equipped with Winegard's new digital preamp specifically designed for digital reception with an input level of 300,000 mV and 12 dB flat gain across the entire bandpass. This design ensures proper digital demodulation for the Square ShooterTM antennas.

GET²TM GET^{HDTV2}TM GET^{SquareShooter}TM

Get²_{TM}

HDTV²
SquareShooterTM
 Antenna System

Models SS-1000 & SS-2000



Model SS-1000/SS-2000

Avg. beamwidth 61°
 Avg. VSWR across band 1.3:1
 Avg. Front to back 13 db
 Avg. gain across band 470-806 4.5 db
 Maximum Width Housing 16" x 16" x 4"
 Preamp gain (SS-2000)
 300,000 μ V Total Input
 S/N ratio 2.8 db
 VHF 12 dB avg.
 UHF 12 dB avg.

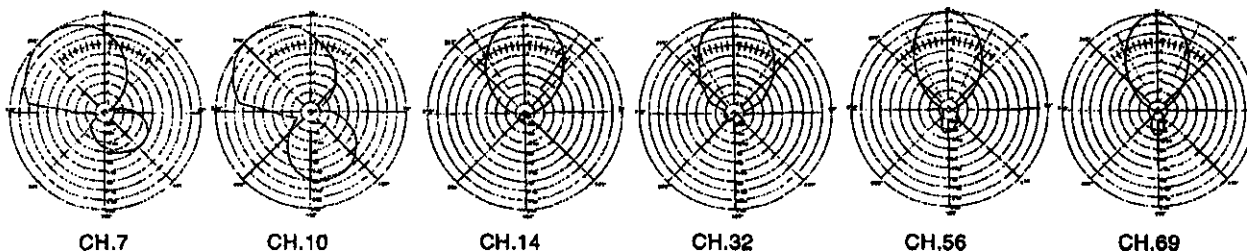
GENERAL RECEPTION GUIDELINES

	ANALOG	DIGITAL
VHF Ch. 2-6	0-10 miles	0-15 miles
VHF Ch. 7-13	0-35 miles	0-40 miles
UHF Ch. 14-69	0-45 miles	0-50 miles

Made in U.S.A. Patent Pending Ships UPS

Channel	CH. 7	CH. 10	CH. 14	CH. 32	CH. 56	CH. 69
Frequency	175.25 MHz	193.25 MHz	471.25 MHz	579.25 MHz	723.25 MHz	805.75 MHz
Beamwidth at half power points	95°	93°	68°	67°	58°	54°
Front-to-back ratio	6.0 db	2.6 db	20db	16 db	12.5 db	12 db

POLAR PATTERNS



WINEGARD
 Clearly the World's Best®

Exhibit 2

Low Noise Amplifiers

Advanced Receiver Research LNAs



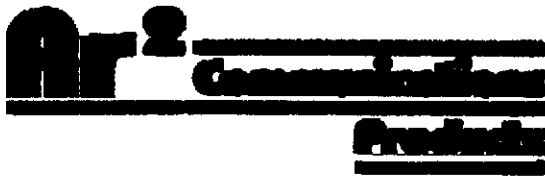
Special Frequency GaAsFET Preamplifiers

For over fifteen years, Advanced Receiver Research has produced low noise figure Gallium Arsenide amplifiers for a wide variety of frequencies and applications. Over these years we have assembled quite a "cookbook" that allows us to handle orders for these "special" frequency ranges with the same quick delivery as standard off the shelf units. We do not charge a premium for this service - custom frequency preamplifiers cost no more than our standard units! Listed below are some of the more popular "special" frequency amplifiers that we have built. If you don't see exactly what you need please call as chances are good we can supply you with a custom preamplifier.

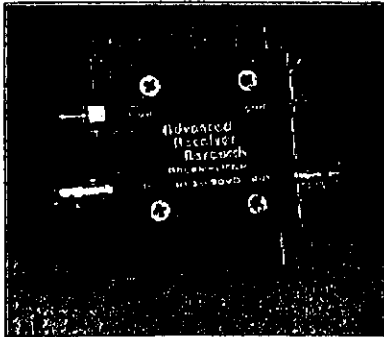
Frequency Range	N.F	Gain	Application
1.0 - 30	2.5	20	shortwave
1.8 - 2.0	0.5	26	amateur
3.3	0.5	26	nmr/mri
3.5 - 4.0	0.5	26	amateur
7.0 - 7.4	0.5	26	amateur
15	0.5	26	nmr/mri
16	0.5	26	nmr/mri
21	0.5	26	nmr/mri
21 - 21.5	0.5	26	amateur
28 - 30	0.5	26	amateur
30 - 1000	3.5	11	broadband
30 - 50 (narrow tune)	0.5	26	commercial
34	0.5	26	nmr/mri
43	0.5	26	nmr/mri
49	0.5	26	cordless telephone
50 - 54	0.5	24	amateur
51	0.5	24	nmr/mri
54 - 60	0.5	24	television
60 - 66	0.5	24	television
66 - 72	0.5	24	television
70	0.5	24	nmr/mri
72	0.5	24	remote control
72 - 76	0.5	24	paging/linking
73 - 74	0.5	24	radio astronomy
76 - 82	0.5	24	television
82 - 88	0.5	24	television
85	0.5	24	nmr/mri
88 - 108 (broad tune)	1.0	20	fm broadcast
88 - 108 (narrow tune)	0.5	24	fm broadcast
97	0.5	24	nmr/mri
108 - 136 (broad tune)	1.0	20	aircraft
108 - 136 (narrow tune)	0.5	24	aircraft
120	0.5	24	nmr/mri
128	0.5	24	nmr/mri
136 - 138	0.5	24	weather satellite
140 - 144	0.5	24	commercial
144 - 148	0.5	24	amateur
150 - 170 (broad tune)	1.0	20	commercial
150 - 170 (narrow tune)	0.5	24	commercial
170	0.5	24	nmr/mri
174 - 180	0.5	22	television
180 - 186	0.5	22	television
186 - 192	0.5	22	television
192 - 198	0.5	22	television
200	0.5	22	nmr/mri

204 - 210	0.5	20	television
210 - 216	0.5	20	television
220 - 225	0.5	20	amateur
240 - 270 (broad tune)	1.0	15	military
240 - 270 (narrow tune)	0.5	20	military
300	0.5	18	remote control
340	0.5	18	nmr/mri
400	0.5	17	nmr/mri
400 - 420	0.5	17	commercial
420 - 450	0.5	17	amateur
440	0.5	17	military radar
450 - 470 (broad tune)	1.0	15	commercial
450 - 470 (narrow tune)	0.5	17	commercial
470 - 510 (broad tune)	1.0	15	commercial
470 - 510 (narrow tune)	0.5	17	commercial
470 - 722 (narrow tune)	0.6	15	television
800 - 890 (broad tune)	1.2	15	cellular/trunking
800 - 890 (narrow tune)	0.6	19	cellular/trunking
896 - 912	0.7	18	data transfer
900 - 950 (broad tune)	1.2	15	trunking/stl
900 - 960 (narrow tune)	0.7	18	trunking/stl

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High Performance Receive Only Broadband VHF/UHF Preamplifier



Features:

- Low noise figure
- High immunity to overload
- Completely shielded
- Suitable for mast/tower mounting
- Small size
- Rugged low profile custom enclosure

The P30-1000/11VD preamplifier has been designed for the most demanding amateur, commercial and military applications. Each model has been optimized for the lowest noise figure consistent with excellent strong signal handling capability. These preamplifiers are suitable for use in any receiver or converter/receiver system. Each preamplifier is housed in a rugged low profile custom aluminum enclosure finished with military grade black urethane enamel. Female BNC coaxial fittings are provided for the input and output connections. Other connectors or connector combinations are available. Complete rf shielding is maintained with a feedthrough capacitor for the dc power connection. Mounting holes, suitable for #4 hardware, are located at each corner of the bottom plate.

The P30-1000/11VD broadband preamplifier uses a low noise figure, high intercept point MMIC to obtain essentially flat performance characteristics across the frequency range. A +18 dBm (nearly 80 mW!), 1-dB compression specification means that overload should seldom be a problem even though the preamplifier does not employ a front-end filter. Use of a front-end filter would likely be required only in the most severe interference environments. These preamplifiers would be useful for improving receiver sensitivity throughout the vhf/uhf range. They would be particularly useful where broad vhf/uhf frequency ranges must be amplified by a single preamplifier such as ahead of a broadband multicoupler, scanner receiver, spectrum analyzer, television receiver or a test receiver. In these applications single band GaAsFET preamplifiers, although lower in noise figure, may not be practical.

Extensive testing of this preamplifier on existing communications systems indicate that a signal-to-noise improvement of 6 - 14 dB can be expected. Each and every preamplifier is precision aligned on our noise figure measuring equipment and should provide long trouble free operation.

The P30-1000/11VD preamplifier is designed to be powered by a 11 - 16 volt dc source with a current consumption of 50 mA. Low power consumption along with the small size make these preamplifiers ideal for installation within existing equipment or systems, or for remote mounting at the antenna. Mounting the preamplifier at the antenna will provide the best system noise figure.

Specifications

Model	Freq. Range (MHz)	N.F. (dB)	Gain (dB)	1 dB Comp. (dBm)	1 dB Bandwidth (MHz)	Device Type	Price
P30-1000/11VD	30-1000	3.5	11	+18	900	MMIC	79.95

Supply voltage: 11 - 16 Vdc

Supply current: 50 mA

Weight: 2.0 oz.

Dimensions: [outline drawing](#)

Prices shown for standard BNC connectors

For custom frequency ranges see

[Special Frequency Ranges](#) or contact
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Antennacraft LNAs

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ANTENNA PRODUCTS

America's Top Producer of HDTV / VHF / UHF Antennas

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Antennacraft Pre-Amplifiers*Amplify digital and analog VHF/UHF signals!***New****10G201 & 10G202
Premium-Grade
Pre-Amplifiers**

Featuring:

**Split-Band VHF-UHF
design****Internal RF
shielding****High-quality
transistors****10G201****High-Input Amplifier****10G201 High Input Amplifier***Best in mixed signal areas where both strong and weak transmission signals are present!*

Mast mounted with indoor power supply
Avg. Gain: 16dB VHF, 22dB UHF
Noise Figure: <3.0dB VHF, <2.6dB UHF
High input level capacity
Surface-mount design
Switchable FM trap
One combined VHF/UHF 75 ohm input/output
UL listed, AC operation
Meets CEA specs for amplifiers
List Price \$54.88

10G202**High-Gain Amplifier****10G202 High Gain Amplifier***Best in deep fringe areas where all transmissions are weak!*

Avg. Gain: 29 dB UHF/VHF
Mast mounted with indoor power supply
Noise Figure: <3.0dB VHF, <2.6dB UHF
Surface-mount design
Switchable FM trap
Power LED on power supply
One combined VHF/UHF 75 ohm input/output
UL listed, AC operation
Meets CEA specs for amplifiers
List Price \$62.38

10G212**Adjustable-Gain
Amplifier****10G212 Adjustable Gain Amplifier***Allows customer the ability to adjust gain based on intended application!*

Avg. Gain: 30dB UHF/VHF
Adjustable Gain Control: up to 15dB
Mast mounted with indoor power supply
Noise Figure: <4.0dB VHF, <3.5dB UHF
Remote Switchable FM trap
Surface Mount design
One combined VHF/UHF 75 ohm input/output
UL listed, AC operation
List Price \$33.63

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Blonder Tongue LNAs

Reception Products



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